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Component-based simulation on the Web?

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This paper appears in: **Simulation Conference Proceedings, 1999. Winter**

Abstract:
Various forms of distributed simulation are possible over the world-wide web, includi
simple multiple replications of the same model, client-server architectures for one or
more simultaneously running models and the distributed operation of one or more lir
models. Like all web-based operations, these simulations are slow due to current
bandwidth limitations, but that could change in the next few years. Languages such ;
Java make this distributed work possible within standard web-browsers such as Intei
Explorer and Netscape, though security considerations mean that this is not always
straightforward. Component-based simulation stems from the ideas of object-orienta
which enable libraries of simulation based components to be developed for re-use. Tl
development of the world-wide-web means that distributed component, discrete
simulation libraries in Java are now feasible. This paper reviews some of these
developments and considers requirements for such distributed libraries, drawing on ⟨
experience at Lancaster

Index Terms:
Internet   Java   client-server systems   digital simulation   information resources   object-orient⟨
programming   Internet Explorer   Netscape   **bandwidth limitations**   client-server architectur⟨
component-based simulation   discrete simulation libraries   distributed simulation   object-
orientation   web-browsers   world-wide web

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